

# **Exhibit B**

1 UNITED STATES DISTRICT COURT  
2 FOR THE EASTERN DISTRICT OF TEXAS  
3 MARSHALL DIVISION  
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6 ENTROPIC COMMUNICATIONS, LLC,  
7 Plaintiff,

8 vs.

No. 2:22-cv-00125-JRG

9 CHARTER COMMUNICATIONS, INC.,  
10 Defendant.

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15 VIDEO-RECORDED DEPOSITION OF MADHUKAR REDDY, PH.D.

16 Remote Zoom Proceedings

17 Irvine, California

18 Friday, July 14, 2023  
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20  
21  
22

23 REPORTED BY:

24 LESLIE ROCKWOOD ROSAS, RPR, CSR 3462  
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<p style="text-align: right;">Page 2</p> <p>1 UNITED STATES DISTRICT COURT 2 FOR THE EASTERN DISTRICT OF TEXAS 3 MARSHALL DIVISION 4 5 6 ENTROPIC COMMUNICATIONS, LLC, 7 Plaintiff, 8 vs. No. 2:22-cv-00125-JRG 9 CHARTER COMMUNICATIONS, INC., 10 Defendant. _____/</p> <p>11 12 13 14 Video-recorded deposition of MADHUKAR REDDY, 15 PH.D., taken on behalf of Defendant, Remote Zoom 16 Proceedings from Irvine, California, beginning at 17 12:36 p.m. Pacific Daylight Time and ending at 2:04 p.m. 18 Pacific Daylight Time, on Friday, July 14, 2023, before 19 Leslie Rockwood Rosas, RPR, Certified Shorthand Reporter 20 No. 3462. 21 22 23 24 25</p>	<p style="text-align: right;">Page 4</p> <p>1 APPEARANCES (Continued): 2 3 Also Present: 4 David West, Videographer 5 Matthew Laurence, Concierge 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25</p>
<p style="text-align: right;">Page 3</p> <p>1 APPEARANCES: 2 3 FOR THE PLAINTIFF: 4 K&amp;L GATES 5 BY: KATHERINE L. ALLOR, ESQ. 6 70 West Madison Street, Suite 3300 7 Chicago, Illinois 60602 8 (312) 807-4325 9 katy.allor@klgates.com 10 11 FOR THE DEFENDANT: 12 ARNOLD &amp; PORTER 13 BY: MARC A. COHN, ESQ. 14 601 Massachusetts Avenue, NW 15 Washington, DC 20001-3743 16 (212) 942-5797 17 marc.cohn@arnoldporter.com 18 19 FOR THE WITNESS: 20 KATZ LAW OFFICE 21 BY: MICHAEL I. KATZ, ESQ. 22 650 Town Center, Suite 1500 23 Costa Mesa, California 92626 24 (949) 659-3341 25 mkatz@katzruby.com</p>	<p style="text-align: right;">Page 5</p> <p>1 INDEX 2 3 4 Friday, July 14, 2023 5 6 WITNESS EXAMINATION 7 8 MADHUKAR REDDY, PH.D. 9 10 BY MR. COHN 9 11 12 13 14 QUESTIONS WITNESS INSTRUCTED NOT TO ANSWER: 15 (None) 16 17 18 19 TOTAL TIME ON RECORD: 20 MR. COHN: 1 hour, 19 minutes 21 MS. ALLOR: (None) 22 23 24 25</p>

2 (Pages 2 - 5)

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<p>1 DEPOSITION EXHIBITS</p> <p>2 MADHUKAR REDDY, PH.D.</p> <p>3 NUMBER DESCRIPTION IDENTIFIED</p> <p>4 Exhibit 1 Subpoena to Testify at a 7</p> <p>5 Deposition in a Civil Action for</p> <p>6 Madhukar Reddy, 04/27/23</p> <p>7 Exhibit 2 Madhukar Reddy LinkedIn Profile 7</p> <p>8 Exhibit 3 MaxLinear Management, Meet Our 7</p> <p>9 Leadership Team, Kishore</p> <p>10 Seendripu, Ph.D., Chief Executive</p> <p>11 Officer</p> <p>12 Exhibit 4 United States Patent No. 9,210,362 7</p> <p>13 B2, 12/08/15</p> <p>14 Exhibit 5 MaxLinear Full-Spectrum Capture 29</p> <p>15 Technology, February 2014,</p> <p>16 MXL001951 - 958</p> <p>17 Exhibit 6 MaxLinear Puma 7 Developer Kit, 37</p> <p>18 CHARTER-ENTROPIC00382260 - 261</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p>1 participants.</p> <p>2 What is seen from the witness and heard on</p> <p>3 screen is what will be recorded. Audio and video</p> <p>4 recording will continue to take place unless all parties</p> <p>5 agree to go off the record. 12:37:19</p> <p>6 This is Media Unit 1 of the video-recorded</p> <p>7 deposition of Madhukar Reddy, Ph.D., taken by counsel for</p> <p>8 defendant in the matter of Entropic Communications, LLC,</p> <p>9 versus Charter Communications, Inc., filed in the United</p> <p>10 States District Court, Eastern District of Texas, 12:37:40</p> <p>11 Marshall Division. The case number is 2:22-cv-00125-JRG.</p> <p>12 The deposition is being conducted remotely using</p> <p>13 virtual technology. My name is David West. I am the</p> <p>14 videographer. The court reporter is Leslie Rosas. We</p> <p>15 represent Veritext Legal Solutions. 12:38:01</p> <p>16 I am not related to any party in this action,</p> <p>17 nor am I financially interested in the outcome.</p> <p>18 If there are any objections to proceeding,</p> <p>19 please state them at the time of your appearance.</p> <p>20 Counsel will now state their appearances and 12:38:14</p> <p>21 affiliations for the record, beginning with the noticing</p> <p>22 attorney.</p> <p>23 MR. COHN: This is Marc Cohn with Arnold &amp;</p> <p>24 Porter, in Washington, DC, for the defendant.</p> <p>25 MS. ALLOR: Katy Allor from K&amp;L Gates on behalf 12:38:27</p>
Page 7	Page 9
<p>1 Irvine, California; Friday, July 14, 2023</p> <p>2 12:36 p.m. Pacific Daylight Time</p> <p>3</p> <p>4 PROCEEDINGS</p> <p>5 --oOo--</p> <p>6 (Exhibit 1, Subpoena to Testify at a Deposition</p> <p>7 in a Civil Action for Madhukar Reddy, 04/27/23,</p> <p>8 was marked for identification by counsel</p> <p>9 electronically.)</p> <p>10 (Exhibit 2, Madhukar Reddy LinkedIn Profile, was</p> <p>11 marked for identification by counsel</p> <p>12 electronically.)</p> <p>13 (Exhibit 3, MaxLinear Management, Meet Our</p> <p>14 Leadership Team, Kishore Seendripu, Ph.D., Chief</p> <p>15 Executive Officer, was marked for identification</p> <p>16 by counsel electronically.)</p> <p>17 (Exhibit 4, United States Patent No. 9,210,362</p> <p>18 B2, 12/08/15, was marked for identification by</p> <p>19 counsel electronically.)</p> <p>20 THE VIDEOGRAPHER: Good afternoon. We are on 12:35:46</p> <p>21 the record. The time is 12:36 p.m., and that is Pacific</p> <p>22 Daylight Time. The date today is July 14, 2023.</p> <p>23 Please note that this deposition is being</p> <p>24 conducted virtually. Quality of recording depends on the</p> <p>25 quality of camera and internet connection of 12:37:06</p>	<p>1 of the plaintiff Entropic Communications, LLC.</p> <p>2 MR. KATZ: Michael Katz of Katz Law Office on</p> <p>3 behalf of the witness.</p> <p>4 THE VIDEOGRAPHER: Thank you.</p> <p>5 The court reporter may now swear the witness in 12:38:38</p> <p>6 and we will continue.</p> <p>7 THE REPORTER: Thank you.</p> <p>8 Would you raise your right hand, please,</p> <p>9 Dr. Reddy. Thank you, sir.</p> <p>10 You do solemnly state that the evidence you</p> <p>11 shall give in this matter shall be the truth, the whole</p> <p>12 truth, and nothing but the truth, so help you God?</p> <p>13 THE WITNESS: I do.</p> <p>14 THE REPORTER: Thank you, sir.</p> <p>15 You may proceed, Counsel. 12:38:58</p> <p>16</p> <p>17 EXAMINATION</p> <p>18 BY MR. COHN:</p> <p>19 Q. Good afternoon, Dr. Reddy. Can you let us know</p> <p>20 what city you're in right now? 12:39:05</p> <p>21 A. It's in Irvine, California.</p> <p>22 Q. And have you given deposition testimony before?</p> <p>23 A. Yes.</p> <p>24 Q. When was the last time you did that?</p> <p>25 A. There was -- I don't remember when exactly, but 12:39:18</p>

<p style="text-align: right;">Page 46</p> <p>1 to go to the text to know that those ADCs are</p> <p>2 analog-to-digital converters?</p> <p>3 A. I just want to be sure. So we can go down if</p> <p>4 you'd like.</p> <p>5 Q. If you look at column 5. 13:56:39</p> <p>6 A. Yeah, column 5. Analog-to-digital converters,</p> <p>7 ADC 1 8 and are high speed --</p> <p>8 (Discussion off the record.)</p> <p>9 THE WITNESS: Okay, I'll repeat that.</p> <p>10 Analog-to-digital converters, ADC 1-218 and ADC 13:56:54</p> <p>11 2-228 are high-speed converters to maximize the dynamic</p> <p>12 range.</p> <p>13 So that's where the reference is to</p> <p>14 analog-to-digital converters.</p> <p>15 Q. Okay. So back to figure 2. 13:57:07</p> <p>16 A. Yeah. Okay.</p> <p>17 Q. ADC 1 and ADC 2 are analog-to-digital</p> <p>18 converters; right, in figure 2?</p> <p>19 A. Correct, correct.</p> <p>20 Q. All right. And it's showing that they are 13:57:27</p> <p>21 converting a signal that has a bandwidth of BW 1 divided</p> <p>22 by two.</p> <p>23 Do you see that?</p> <p>24 A. Correct.</p> <p>25 Q. And that means that -- yes, go ahead. 13:57:39</p>	<p style="text-align: right;">Page 48</p> <p>1 Is that fair?</p> <p>2 A. Can you repeat the question?</p> <p>3 Q. Sure.</p> <p>4 Based on your review of this patent to prepare</p> <p>5 for today's deposition, you don't recall seeing a 14:00:23</p> <p>6 specific example where the entire spectrum received at</p> <p>7 the RF input was digitized?</p> <p>8 A. Inside the patent, there are a few examples</p> <p>9 provided; right? In those examples, it's showing various</p> <p>10 ways of implementing how the receiver is, but it also 14:00:46</p> <p>11 mentions that there are many other possibilities to take</p> <p>12 this idea further.</p> <p>13 Q. I understand that, but you didn't see a specific</p> <p>14 example --</p> <p>15 A. In the examples -- in the examples within the 14:01:06</p> <p>16 patent, there are three examples. I think figure, 2, 4,</p> <p>17 and 6 we just reviewed that is showing certain</p> <p>18 implementation of the receiver.</p> <p>19 Q. And it doesn't show digitizing the entire</p> <p>20 spectrum received at the RF input in those examples? 14:01:23</p> <p>21 A. It's showing ADCs present, and the ADCs are</p> <p>22 digitizing whatever signal is presented to them. And if</p> <p>23 you see ADC 1, ADC 2, ADC 3, and ADC 4 on figure 6, they</p> <p>24 are digitizing all the signals presented in front of it.</p> <p>25 What that is depends on the implementation, and it could 14:01:53</p>
<p style="text-align: right;">Page 47</p> <p>1 A. Yeah, BW 1 divided by two, yes.</p> <p>2 Q. Okay. So the analog-to-digital converters are</p> <p>3 digitizing a signal with half of the bandwidth of BW 1;</p> <p>4 correct?</p> <p>5 A. That's what -- that's what it's referring to. 13:57:55</p> <p>6 Q. Okay. And --</p> <p>7 A. In this example, that's what it's referring to,</p> <p>8 yes.</p> <p>9 Q. Now I'll invite you to look through the rest of</p> <p>10 the figures, but are there any figures that depict 13:58:21</p> <p>11 digitizing more than half of the bandwidth received at</p> <p>12 the RF input?</p> <p>13 A. So maybe you can find the specific figures.</p> <p>14 Figure -- figure 4, I see something. Figure 4 does not</p> <p>15 show any -- does not mention anything. It shows a 13:58:59</p> <p>16 bandwidth 1.</p> <p>17 I'm looking at figure 6, and figure 6 shows</p> <p>18 ADCs. There is a tuner 1 and a tuner 2. Again, it does</p> <p>19 not -- it shows the bandwidth presented at the input, RF</p> <p>20 input. So, again, you have to go back to the description 13:59:44</p> <p>21 and see what -- what is mentioned here.</p> <p>22 Q. So based on your review of this patent to</p> <p>23 prepare for today, you don't recall seeing an example, a</p> <p>24 specific example, where the entire spectrum received at</p> <p>25 the RF input was digitized. 14:00:13</p>	<p style="text-align: right;">Page 49</p> <p>1 be anything that is sections of the channels that are</p> <p>2 presented in the input of the -- the receiver.</p> <p>3 Q. And you didn't see the phrases "full band" or</p> <p>4 "full spectrum" when you reviewed this patent; right?</p> <p>5 A. I'd have to go through it looking for that -- 14:02:15</p> <p>6 for that --</p> <p>7 Q. You don't recall, based on your review you did</p> <p>8 before the depo, seeing that; correct?</p> <p>9 A. In my cursory glance, I -- I -- I don't remember</p> <p>10 seeing -- seeing that specific word. 14:02:28</p> <p>11 Q. Okay. You're aware that if Entropic wins this</p> <p>12 case, that MaxLinear is entitled to a share of the</p> <p>13 proceeds?</p> <p>14 A. I don't know the details.</p> <p>15 Q. Do you know that -- of that basic fact? 14:02:54</p> <p>16 A. I know of -- I don't know the -- I don't know</p> <p>17 the -- I don't know all the details. I know we sold the</p> <p>18 patents, and there are some details that are inside the</p> <p>19 contract. So I'm not sure of what are in the details.</p> <p>20 Q. Do you know that MaxLinear has an interest in 14:03:14</p> <p>21 this case?</p> <p>22 A. I -- I don't know one way or the other.</p> <p>23 MR. COHN: All right. I will pass the witness.</p> <p>24 THE WITNESS: Okay.</p> <p>25 MS. ALLOR: I don't have any follow-up 14:03:30</p>

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<p style="text-align: right;">Page 50</p> <p>1 questions.</p> <p>2 MR. KATZ: I have no questions of my own</p> <p>3 witness.</p> <p>4 MR. COHN: Okay. We are done, Dr. Reddy. Thank</p> <p>5 you. 14:03:40</p> <p>6 THE WITNESS: Thank you.</p> <p>7 MR. COHN: Just stick around for a moment.</p> <p>8 We're going to do some formalities. It will only take a</p> <p>9 few minutes.</p> <p>10 THE WITNESS: Sure. 14:03:52</p> <p>11 THE VIDEOGRAPHER: Okay. Let me take you off</p> <p>12 the record.</p> <p>13 This will conclude the deposition of Madhukar</p> <p>14 Reddy, Ph.D. the total number of media units used in the</p> <p>15 deposition today was two and will be retained by Veritext 14:04:02</p> <p>16 Legal Solutions.</p> <p>17 We are off the record. The time is 2:04 p.m.</p> <p>18 Pacific Daylight Time. Thank you.</p> <p>19 (Time noted: 2:04 p.m. Pacific Daylight Time.)</p> <p>20 --oOo--</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p style="text-align: right;">Page 52</p> <p>1 MICHAEL I. KATZ, ESQ.</p> <p>2 mkatz@katzruby.com</p> <p>3 July 26, 2023</p> <p>4 RE: Entropic Communications, LLC v. Charter</p> <p>Communications, Inc., Et Al</p> <p>5 7/14/2023, Madhukar Reddy , Ph.D. (#5999052)</p> <p>6 The above-referenced transcript is available for</p> <p>7 review.</p> <p>8 Within the applicable timeframe, the witness should</p> <p>9 read the testimony to verify its accuracy. If there are</p> <p>10 any changes, the witness should note those with the</p> <p>11 reason, on the attached Errata Sheet.</p> <p>12 The witness should sign the Acknowledgment of</p> <p>13 Deponent and Errata and return to the deposing attorney.</p> <p>14 Copies should be sent to all counsel, and to Veritext at</p> <p>15 cs-ny@veritext.com</p> <p>16</p> <p>17 Return completed errata within 30 days from</p> <p>18 receipt of testimony.</p> <p>19 If the witness fails to do so within the time</p> <p>20 allotted, the transcript may be used as if signed.</p> <p>21</p> <p>22 Yours,</p> <p>23 Veritext Legal Solutions</p> <p>24</p> <p>25</p>
<p style="text-align: right;">Page 51</p> <p>1 STATE OF CALIFORNIA ) ss:</p> <p>2 COUNTY OF MARIN )</p> <p>3</p> <p>4 I, LESLIE ROCKWOOD ROSAS, RPR, CSR NO. 3452, do</p> <p>5 hereby certify:</p> <p>6 That the foregoing deposition testimony was</p> <p>7 taken before me at the time and place therein set forth</p> <p>8 and at which time the witness was administered the oath;</p> <p>9 That testimony of the witness and all objections</p> <p>10 made by counsel at the time of the examination were</p> <p>11 recorded stenographically by me, and were thereafter</p> <p>12 transcribed under my direction and supervision, and that</p> <p>13 the foregoing pages contain a full, true and accurate</p> <p>14 record of all proceedings and testimony to the best of my</p> <p>15 skill and ability.</p> <p>16 I further certify that I am neither counsel for</p> <p>17 any party to said action, nor am I related to any party</p> <p>18 to said action, nor am I in any way interested in the</p> <p>19 outcome thereof.</p> <p>20 IN WITNESS WHEREOF, I have subscribed my name</p> <p>21 this 26th day of July, 2023.</p> <p>22</p> <p>23</p> <p>24  LESLIE ROCKWOOD ROSAS, RPR, CSR NO. 3462</p> <p>25</p>	<p style="text-align: right;">Page 53</p> <p>1 Entropic Communications, LLC v. Charter Communications, Inc.</p> <p>2 Madhukar Reddy , Ph.D. (#5999052)</p> <p>3 E R R A T A S H E E T</p> <p>4 PAGE ____ LINE ____ CHANGE ____</p> <p>5</p> <p>6 REASON ____</p> <p>7 PAGE ____ LINE ____ CHANGE ____</p> <p>8</p> <p>9 REASON ____</p> <p>10 PAGE ____ LINE ____ CHANGE ____</p> <p>11</p> <p>12 REASON ____</p> <p>13 PAGE ____ LINE ____ CHANGE ____</p> <p>14</p> <p>15 REASON ____</p> <p>16 PAGE ____ LINE ____ CHANGE ____</p> <p>17</p> <p>18 REASON ____</p> <p>19 PAGE ____ LINE ____ CHANGE ____</p> <p>20</p> <p>21 REASON ____</p> <p>22</p> <p>23</p> <p>24 Madhukar Reddy , Ph.D. Date</p> <p>25</p>

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